

ABSTRACT OF THE DISCLOSURE

An electronic element is formed of a deposited film containing cesium (Cs) and has a plurality of conical projections on its surface. The projections are formed of cesium oxide and have an average height h in a range of $10 \text{ nm} \leq h \leq 500 \text{ nm}$. The electronic element is used as a cold cathode element, and has a high practicality, and for example, emits electrons sufficiently even with a low voltage applied thereto.